RGS UPDATE

Kathryn Flanagan

MIT Center for Space Research

RGS Update

10:30 Kathryn Flanagan - Review of recent progress, current and upcoming activities

10:40 George Ricker - Status Report for the RFC

11:05 Ralf Heilmann - Reflection Grating Development Update

11:30 Webster Cash - Off-plane Grating Update

Following Talks:
12:00 Jeff Linsky - Spectral Resolution Needs
12:20 Martin Laming - Off-plane Grating Polarization Sensitivity
12:30 Andrew Rasmussen - Tradeoff and Design Issues

Recent Progress

-will be presented in the next few talks.
Highlights include:

Low energy CCD resolution

Synchrotron Tests of Grating Efficiency

Nanoimprint Lithography progress

Resolution test with off-plane gratings

Current and Near Term Activities

Support the definition of SXT ***FMA*** requirements for ***industry study***

Synchrotron measurements of ***polarization*** sensitivity

Considering ***re-baselining*** / downselsect between in-plane and off-plane configurations. This provides the context of Several talks. The process includes:

- Development of an independent model of in-plane and off-plane gratings
- Examination of engineering issues
- Review modeling against experiment

Independent Modeling is underway

Groups outside of Columbia and University of Colorado will model gratings. Each will begin with one aspect, then will expand. Cross-comparison will provide checks.

MIT - Off-plane

CfA - In-plane

Goddard Space Flight Center - Optic